

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A portable electronic device, ~~which includes~~ comprising:
a wireless communication module to communicate with a separate access device in a
wireless fashion;
a data storage module to store emulation data to emulate an electronic apparatus; and
a controller to control the communication of the emulation data to the access device
to output to a user to emulate the electronic apparatus.
2. (Currently Amended) ~~A device as claimed in~~ The device of Claim 1, in which
wherein the data storage module stores display data, the portable electronic device
being configured to communicate the display data to the access device to provide a
display layout that simulates the physical appearance of the electronic apparatus.
3. (Currently Amended) ~~A device as claimed in~~ The device of Claim 2, in which
wherein the display layout is defined by a plurality of skins that are stored on the
portable electronic device and communicated in a wireless fashion to the access
device.
4. (Currently Amended) ~~A device as claimed in~~ The device of Claim 2, in which
wherein the display layout includes function buttons that ~~substantially~~ resemble
function buttons on the electronic apparatus in appearance and which, when activated
by a pointing device, cause the portable electronic device to execute ~~substantially~~
similar functions to the function buttons on the electronic apparatus.

5. (Currently Amended) ~~A device as claimed in~~ The device of Claim 1, in which
wherein the wireless communication module is a radio frequency (RF) device that
communicates over a limited range using a standard wireless communication
protocol.
6. (Currently Amended) ~~A device as claimed in~~ The device of Claim 5, in which
wherein the standard wireless communication protocol is selected from the group
including Bluetooth IEEE 802.15, IEEE 802.11a, and IEEE 802.11b.
7. (Currently Amended) ~~A device as claimed in~~ The device of Claim 1, in which
wherein the access device includes a user multimedia interface, the portable
electronic device being configured to communicate the emulation data to the user
multimedia interface to provide an output to a user.
8. (Currently Amended) ~~A device as claimed in~~ The device of Claim 7, in which
wherein the access device ~~exclusively~~ defines an interface with the user, and the
multimedia interface provides an audio output device to output audio sourced from
the portable electronic device.
9. (Currently Amended) ~~A device as claimed in~~ The device of Claim 8, in which
wherein the portable electronic device emulates the functionality of at least one
electronic apparatus selected from the group including an MP3 player, a personal

digital assistant (PDA), an electronic book, a dictionary, a calculator, a cellular telephone, a calorie counter, a game playing device, and a smart card.

10. (Currently Amended) ~~A device as claimed in~~ The device of Claim 7, ~~in which~~ wherein the portable electronic device determines if the access device has the output capabilities to provide the functionality of the electronic apparatus prior to communicating the display data and the emulation data to the access device.
11. (Currently Amended) ~~A device as claimed in~~ The device of Claim 1, ~~in which~~ wherein communication is effected ~~using~~ uses Universal Plug and Play standards.
12. (Currently Amended) An emulation system, ~~which includes~~ comprising:
a portable electronic device to emulate functionality provided by an electronic apparatus, the portable electronic device including a wireless communication module and a data storage module to store emulation data; and
a separate access device including a wireless communication interface to communicate with the wireless communication module when the portable electronic device is within a wireless communication range of the access device, the portable electronic device communicating emulation data to the access device to output to a user to emulate the electronic apparatus.
13. (Currently Amended) ~~A system as claimed in~~ The system of Claim 12, ~~in which~~ wherein the data storage module stores display data, and the portable electronic

device being configured to communicate the display data to the access device to provide a display layout that simulates the physical appearance of the electronic apparatus.

14. (Currently Amended) ~~A system as claimed in~~ The system of Claim 13, ~~in which~~ wherein the display layout is defined by a plurality of skins that are stored on the portable electronic device.
15. (Currently Amended) ~~A system as claimed in~~ The system of Claim 13, ~~in which~~ wherein the display layout includes function buttons that ~~substantially~~ resemble function buttons on the electronic apparatus in appearance and which, when activated by a pointing device, cause the system to execute ~~substantially~~ similar functions to the function buttons on the electronic apparatus.
16. (Currently Amended) ~~A system as claimed in~~ The system of Claim 12, ~~in which~~ wherein the wireless communication module and interface are radio frequency (RF) devices that communicate over a limited range using a standard wireless communication protocol.
17. (Currently Amended) ~~A system as claimed in~~ The system of Claim 16, ~~in which~~ wherein the standard wireless communication protocol is selected from the group including Bluetooth IEEE 802.15, IEEE 802.11a, and IEEE 802.11b.

18. (Currently Amended) ~~A system as claimed in~~ The system of Claim 12, ~~in which~~ wherein the portable electronic device emulates the functionality of the electronic apparatus selected from the group including an MP3 player, a personal digital assistant (PDA), an electronic book, a dictionary, a calculator, a cellular telephone, a calorie counter, a game playing device, and a smart card.
19. (Currently Amended) ~~A system as claimed in~~ The system of Claim 12, ~~in which~~ wherein the access device exclusively defines an interface with the user and the emulation data includes at least one of audio data , text data, and numeric data.
20. (Currently Amended) A method, ~~which includes~~ comprising:
monitoring when a portable electronic device is within a wireless communication range of an access device, the portable electronic device emulating the functionality of an electronic apparatus; and
communicating emulation data stored on the portable electronic device to the access device in a wireless fashion to provide an output to a user.
21. (Currently Amended) ~~A method as claimed in~~ The method of Claim 20, which includes communicating display data to the access device to provide a display layout that simulates the physical appearance of the electronic apparatus.
22. (Currently Amended) ~~A method as claimed in~~ The method of Claim 21, ~~in which~~ wherein the display data defines a plurality of skins that provide the display layout.

23. (Currently Amended) ~~A method as claimed in~~ The method of Claim 21, which includes:
- communicating display data that defines a plurality of function buttons that
- ~~substantially~~ resemble function buttons on the electronic apparatus in appearance;
- monitoring when a pointing device selects a particular function button;
- executing the function on the portable electronic device; and
- communicating emulation data to the access device to output to the user.
24. (Currently Amended) ~~A method as claimed in~~ The method of Claim 20, which includes communicating between the portable electronic device and the access device using a standard radio frequency (RF) wireless communication protocol.
25. (Currently Amended) ~~A method as claimed in~~ The method of Claim 20, ~~in which~~ wherein the standard wireless communication protocol is selected from the group including Bluetooth IEEE 802.15, IEEE 802.11a, and IEEE 802.11b.
26. (Currently Amended) ~~A method as claimed in~~ The method of Claim 20, which includes emulating the functionality of at least one electronic apparatus selected from the group including an MP3 player, a personal digital assistant (PDA), an electronic book, a dictionary, a calculator, a cellular telephone, a calorie counter, a game playing device, and a smart card.

27. (Currently Amended) ~~A method as claimed in~~ The method of Claim 21, which includes determining if the access device has the capability to provide the display layout and output the emulation data prior to communicating the display data and emulation data to the access device.
28. (Currently Amended) ~~A method as claimed in~~ The method of Claim 20, which ~~includes wherein the~~ communicating ~~using~~ uses Universal Plug and Play standards.
29. (Currently Amended) A machine-readable medium ~~computer program product~~ ~~including a medium readable by a computer, the medium including having stored thereon data representing stets of instructions which, when executed by the computer a~~ machine, cause the ~~computer machine~~ to:
monitor when a portable electronic device is within a wireless communication range
of an access device; and
communicate emulation data stored on the portable electronic device to the access
device in a wireless fashion to output to a user to emulate the electronic
apparatus.
30. (Currently Amended) ~~A computer program product as claimed in~~ The machine-readable medium of Claim 29, ~~which includes wherein~~ communicating display data to the access device in a wireless fashion, and the display data defining a display layout that ~~substantially~~ simulates a physical appearance of the electronic apparatus.

31. (Currently Amended) ~~A computer program product as claimed in~~ The machine-readable medium of Claim 29, in which ~~wherein~~ the display data defines a plurality of skins that are displayed on the display.
32. (Currently Amended) ~~A computer program product as claimed in~~ The machine-readable medium of Claim 29, wherein the sets of instructions, when executed by the machine, further cause the machine to ~~which:~~
communicate ~~communicates~~ display data that defines a plurality of function buttons that substantially resemble function buttons on the electronic apparatus in appearance;
monitor ~~monitors~~ when a pointing device selects a particular function button;
execute ~~executes~~ the function on the portable electronic device; and
communicate ~~communicates~~ emulation data to the access device to output to the user.
33. (Currently Amended) ~~A computer program product as claimed in~~ The machine-readable medium of Claim 29, in which ~~wherein~~ communication between the portable electronic device and the access device is by way of a standard radio frequency (RF) wireless communication protocol.
34. (Currently Amended) ~~A computer program product as claimed in~~ The machine-readable medium of Claim 33, in which ~~wherein~~ the standard wireless communication

protocol is selected from the group including Bluetooth IEEE 802.15, IEEE 802.11a, and IEEE 802.11b.

35. (Currently Amended) ~~A computer program product as claimed in~~ The machine-readable medium of Claim 29, which emulates wherein the sets of instructions, when executed by the machine, further cause the machine to emulate the functionality of at least one electronic apparatus selected from the group including an MP3 player, a personal digital assistant (PDA), an electronic book, a dictionary, a calculator, a cellular telephone, a calorie counter, a game playing device, and a smart card.
36. (Currently Amended) ~~A computer program product as claimed in~~ The machine-readable medium of Claim 30, which determines, wherein the sets of instructions, when executed by the machine, further cause the machine to determine if the access device has the capability to provide the display layout and output the emulation data prior to communicating the emulation data to the access device.
37. (Currently Amended) ~~A computer program product as claimed in~~ The machine-readable medium of Claim 29, which monitors wherein the sets of instructions, when executed by the machine, further cause the machine to monitor when the portable electronic device and the access device are within a predetermined physical range, the physical range defining a restricted zone within which the access device assumes that a user bearing the portable electronic device requires use of the access device.

38. (Currently Amended) ~~A computer program product as claimed in~~ The machine-readable medium of Claim 29, which communicates using wherein communication
uses Universal Plug and Play standards.